INDEX TO VOLUME VII

Aceto-carmin, 63
Acetone as a substitute for alcohol in microtechnic, 65
Acetone-methyl-benzoate, as mounting medium, 31
Acid-fast bacteria and spores, differential stain, 21
Acid fuchsin, 31, 68, 76, 99, 104, 109, 110, 111, 133
Alcohol in microtechnic, acetone as a substitute for, 65
Alexander, Eleanor G. Improved staining techniques for the demonstration of non-acid-fast tubercle bacilli and granules, (abs.), 147
Algae, staining of, 68
Allium, mitosis in, 44
Anilin blue, 131, 132
Animal tissues, hot celloidin technic for, 135
  "Kallichrom" for, 30
  staining of, 67, 110
Auramin, 30
Azocarmin, 71
Azure C, 114

Bacteria, acid-fast, and spores, differential stain, 21
  Gram-positive, staining of, 72
  in tissue sections, staining of, 109
  staining of, 110
Bacterial flagella, staining of, 111
Bacterium tularense, staining of, 69
Barrett, W. C., Jr. Heidenhain's hematoxylin used with the smear technic, 63
Basic fuchsin, 5, 6, 10, 11, 15, 21, 22, 23, 24, 30, 33, 36, 71, 91, 92, 93, 99, 104, 109, 110, 111, 115, 116, 131
  in plant anatomy, use of, 91
Basic fuchsin tablets, 36
Baumgartner, W. J., and M. A. Payne. 'Intravitam' technic used in studies on the living cells of grasshoppers, (abs.), 67
Baumgartner, W. J., and B. M. Welch. A new time-saving device for embedding in paraffin, 129
Belezky, W. K. Die Pyridinsodamethode zur Imprägnation der Mesoglia (Hortegazellen, Oligodendroglia, Drenagzellen) und Retinoculoendothelzellen (für Gelatin und Celloidinschnitte), (abs.), 109
Bismarck brown, 110
Blood, staining of, 29, 148, 149
Blood, supravital staining of, 68
Botanical material, applications of, Feulgen's reaction for, 9
Botanical technic, use of celloidin in, 37–62
Bowman, P. W., and M. N. Linch. A short method for the preparation of animal tissues for staining, (abs.), 67
Brenn, Lena; J. H. Brown and. A method for the differential staining of Gram-positive and Gram-negative bacteria in tissue sections, (abs.), 109
Brilliant cresyl blue, 29, 76
Broders, A. C. Modification of Wilson's fresh frozen section technic, (abs.), 68
Brown, J. H., and Lena Brenn. A method for the differential staining of Gram-positive and Gram-negative bacteria in tissue sections, (abs.), 109
Brucella, differentiation by means of bacteriostasis, 30
Buffer solutions in staining procedures—a correction, 107
Buginvillaea glabra, microsporogenesis in, 68
Burke, Victor; Ruth Dickson and Smith Phillips. Differential stain for acid-fast bacteria and spores, 21

Cajal's silver impregnation method, 69
Camp, W. H., and F. G. Liming. The use of basic fuchsin in plant anatomy, 91
Capsule stains, 34
Carbol-fuchsin, 21, 99, 104, 110, 115, 116
Carmin, 76, 81, 82, 83, 84, 86
  aceto-, 63
Carpenter, D. C., and B. R. Nebel. Ruthenium tetroxide as fixative in cytology, (abs.), 29
Celloidin method, for animal tissue, 135
  for plant tissue, 37–62
  technic of, 33, 37–62, 135–146
Celloidin-paraffin sections, mounting of, 31
Chamberlain, C. J. Methods in plant histology, (book review), 152
Chondriome, staining of, 71
Chromosome stain, somatic, gentian violet for, 17, 107
Ciliates, silver and gold impregnation, 32
Cleveland, R., and J. M. Wolfe. A differential stain for the anterior lobe of the hypophysis, (abs.), 147
Commission on Standardization of Biological Stains, constitution of, amendment to, 75
Congo-red, 110
Conjunctive tissue, staining of, 72

Conn, H. J.
Progress in the standardization of stains:
Enlarging the scope of this journal, 113
Report on Executive Committee meeting held at New York, March 26, 1932, 73
Research problems still facing the Stain Commission, 1
Stains marketed in accurately weighed quantities, 33
Technic of the celloidin method, 33
The history of staining, 113
Conn, H. J. and R. S. Cunningham.
The history of staining:
Methods for the preservation of supravitally stained material, 115
The use of dyes as vital stains, 81
Connective tissue, silver impregnation, 31
Connective tissue stain, Mallory's, following hematoxylin, 131
Cook, J. E., H. M. Meyer and L. L. Tureen. Reticulocyte count preparations: An improved technic, (abs.), 29
Cook, W. R. Ivimey. A simple method of staining fungi in fine roots, (abs.), 29
Cooper, D. A. Microsporogenesis in *Buginvillaea glabra*, (abs.), 68
Coverslips, cleaning of, 70
Cunningham, R. S. and H. J. Conn.
The history of staining:
Methods for the preservation of supravitally stained material, 115
The use of dyes as vital stains, 81
Cunningham, R. S., and E. H. Tompkins. The supravital staining of normal human blood cells, (abs.), 68
Curling of microtome sections, prevention of, 72
Cyanine, 86

Dehydrating agents for paraffin embedding, 25
Dickson, Ruth; Victor Burke, Smith Phillips and. Differential stain for acid-fast bacteria and spores, 21

Eckert, F. Erfahrungen mit der Praparationen von Algen, (abs.), 68
Eggs, sea urchin, vital staining of, 70
Elodea, vital staining of, 71
Embedding in paraffin, new time-saving device for, 129
Embryos, staining of, 150
Enzymes, neutral red as indicator of, 30
Eosin B, 28, 121, 126, 127
Eosin Y, 4, 7, 28, 30, 31, 33, 70, 122, 126
Eosin Y tablets, 36
Erythrosin, 25, 26, 68, 70, 114, 126, 147
Erythrosin for Stoughton's thionin orange G, 25
Estrada, A.; A. L. Salazar and. Sur une réaction colloïdale nouvelle de l'hémoglobine, (abs.), 149
Ethyl violet orange G, 71

Fast green FCF, 4, 66
Fat, staining of, 149
Favorsky, B. A. Eine modifikation des Silberimpregnationsverfahrens Ramon y Cajals für das periphere Nervensystem, (abs.), 69
Feulgen's reaction and some applications for botanical material, 9
Fibrin, staining of, 72
Flagella of bacteria, staining of, 111
Fluorescein, 70
Formalin-fixed material, Mallory's stains for, 70
Foshay, Lee. A new method for staining *Bacterium tularense* in tissue sections, (abs.), 69
French, R. W. Buffer solutions in staining procedures—a correction, 107
Frozen sections, staining of, 68
Fuchsin, acid, 31, 68, 76, 99, 104, 109, 110, 111, 133
basic, 5, 6, 10, 11, 15, 21, 22, 23, 24, 30, 33, 36, 71, 91, 92, 93, 99, 104, 109, 110, 111, 115, 116, 131
Fuchsin, carbol, 21, 99, 104, 110, 115, 116
Fuchsin-sulfurous acid, 112
Fungi in fine roots, staining of, 29

Gage, S. H. The microscope, (book review), 152
Geidies, Hermann. Nucplascoll, ein neuer Farbstoff für histologische und botanische Schnittfärburgen, (abs.), 69
Gellhorn, E. Vital staining and permeability, (abs.), 70
Gentian violet, 4, 17, 18, 19, 33, 66, 107, 109, 111
Gentian violet tablets, 36
Gentian violet as a somatic chromosome stain, 17, 107
Gnanamuthu, G. P. Note on picro-congo-red staining, (abs.), 110
Gold method for ciliates, 32
Gonard, A. Il n'y a pas d' "amphinucléole" chez les *Spirogyra*, (abs.), 70
Gordon, H. A simple apparatus for cleaning coverslips, (abs.), 70
Gradwohl, R. B. H. Laboratory technic, (book review), 152
Grasshoppers, vital staining of, 67

Heidenhain's Hematoxylin used with the smear technic, 63
Hemalum, 30, 66, 71
Hematein, 26, 27
Hematoxylin, 4, 15, 26, 27, 29, 30, 31, 59, 63, 66, 68, 71, 72, 110, 111, 115, 116, 131–3, 147, 149
alum, 109

Heidenhain's, in smear technic, 63
Heidenhain's, ripening, 26
iron, 17, 66, 70
iron alum, 59
iron, Heidenhain's, 60
Mallory's connective tissue stain following, 131
solutions, ripening, 30
History of staining:
Methods for the preservation of supravitally stained material, 115
The use of dyes as vital stains, 81
Hollande, A. C. L'insolubulisation des urates figurés dans les coupes histologiques, (abs.), 29
Holmes, Walter C.—In memoriam, 79
Holmes, W. C., C. G. Melin and A. R. Peterson. Eosin B., 121
Hot celloidin technic for animal tissues, 135
Huddleson, I. F. Differentiation of the species of the genus *Brucella*, (abs.), 30
Huntoon, F. M. Glycerin as an adjuvant to bacterial dyes, (abs.), 110
Hypophysis, anterior lobe, staining of, 147

Imschenetzky, A. Über die Permeabilität der Haut für Trypanblaulösung unter Berücksichtigung der Hautimmunitätstheorie von Besredka, (abs.), 148
Indigo carmin, 28, 31, 84
Indophenol, 104
Insect eggs, staining of, 112
Intravitam technic for grasshoppers, 67
Isamine blue, 84

James, C. M.; E. J. Kohl and. A method for ripening hematoxylin solutions rapidly, (abs.), 30
Janus green B, 68, 87, 115, 116
Johansen, Donald A. A new method of differentiating gentian violet when used as a somatic chromosome stain, 17
Further notes on the use of gentian violet as a somatic chromosome stain, 107

"Kallichrom," a new histologic stain, 30
Kernohan, James W. A new modification of Mallory-Heidenhain's differential staining method and adaptation of formalin-fixed material for Mallory's stains, (abs.), 70
Kirkman, I. J. Neutral red as a counterstain for Pal-Weigert sections, (abs.), 148
Kisser, J. Eine neue Farbstoffkombination, das Kallichrom nach Dr. Gross, (abs.), 30
Neue Erfahrungen auf dem Gebiete des Schneidens harter Objekte, (abs.), 110
Koehring, Vera. Thermal relations in the neutral red reaction, (abs.), 30
Kohl, E. J. and C. M. James. A method for ripening hematoxylin solutions rapidly, (abs.), 30
Kruszynski, P. Une nouvelle methode pour la detection du chondriome, (abs.), 71
Kuhne's blue, 71
Kunze, R. Der Einfluss der Wasserstoffionene-Konzentration auf die Vakuolenkontraktion vital-gefärbter Elodea-Zellen, (abs.), 71

Laboratory technic, (book review), 152
LaCour, L. Improvement in every day technic in plant cytology, (abs.), 111
LaRochelle, F. D. Modification of use of Wright's stain, (abs.), 148
Light green SF yellowish, 4, 25, 26, 30
Liming, F. G.; W. H. Camp and. The use of basic fuchsin in plant anatomy, 91
Linch, M. N.; R. W. Bowman and. A short method for the preparation of animal tissues for staining, (abs.), 67
Li Yuan-Po. Méthode pour mettre en évidence, sur la même coupe, les bacilles tuberculeux et le calcium, (abs.), 71

Malachite green, 21, 22, 23, 24, 28
Mallory's connective tissue stain following hematoxylin, 131
Mallory's stains, for formalin-fixed material, 70
Maneval, W. E. The staining of flagella of bacteria, with special reference to mordants, (abs.), 111
Marchi method for demonstrating degenerated fiber connections within the central nervous system, 95
Margolena, Lubow A. Dehydrating agents for paraffin embedding, 25
Erythrosin for Stoughton's thionin orange G, 25
Feulgen's reaction and some of its applications for botanical material, 9
Ripening of hematoxylin for Heidenhain's method, 26
Martinez Pérez, M. R. Contribution à l'étude des terminaisions nerveuses dans la peau de la main, (abs.), 111
Melin, C. G., A. R. Peterson; W. C. Holmes and. Eosin B, 121
Methods in plant histology, (book review), 152
Methyl green, 8, 19, 36, 68, 114, 116
Methyl violet, 30, 70, 72, 111
Methyl violet 2B, 19

Methylene blue, 3, 31, 33, 35, 36, 70, 76, 84, 86, 110, 115, 116, 117, 118, 147
polychrome, 7, 68
tablets, 36
Methylene violet, 114
Mettler, F. A. The Marchi method for demonstrating degenerated fiber connections within the central nervous system, 95
Metz, C. W.; M. L. Schmuck and. A method for the study of chromosomes in entire insect eggs, (abs.), 112
Meyer, H. M.; J. E. Cook, L. L. Tureen and. Reticulocyte count preparations: An improved technic, (abs.), 29
Microscope, the, (book review), 152
Microsporogenesis, staining for, 68
Myxomycetes, staining of, 112

Nagy, J.; C. I. Urechia and. Méthode rapide et sure pour la coloration du tissu conjonctif dans le tissu nerveux, (abs.), 72
Nebel, B. R.; D. C. Carpenter and. Ruthenium tetroxide as a fixative in cytology, (abs.), 29
Negri bodies, staining of, 31
Nervous system, central, Marchi method for demonstrating degenerated fiber connections within, 95
Nervous tissue, impregnation of, 31, 109, 111
Nervous tissue, staining of, 69, 72, 148, 150
vital staining of, 151
Neutral red, 30, 31, 36, 68, 71, 84, 86, 87, 112, 115, 116, 117, 118, 148
Neutral red staining, thermal relations, 30
New method of differentiating gentian violet when used as somatic chromosome stain, 17
New time-saving device for embedding in paraffin, 129
Nile blue, 149, 150
Nile blue sulfate, 69, 104
Notes on technic:
Dehydrating agents for paraffin embedding, 25
Erythrosin for Stoughton's thionin orange G, 25
Further notes on the use of gentian violet as a somatic chromosome stain, 107
Ripening of hematoxylin for Heidenhain's method, 26
Nucplascoll, 70

Oligodendroglia, staining of, 71
Onion, mitosis in, 44
Orange G, 4, 11, 25, 26, 30, 131, 132, 147
Orange G, thionin, Stoughton's, erythrosin for, 25

Paraffin embedding, 151
dehydrating agents for, 25
new time-saving device for, 129
Payne, M. A.; W. J. Baumgartner and. 'Intravitam' technic used in studies on the living cells of grasshoppers, (abs.), 67
Penfield, W. A further modification of Del Rio Hortega's method of staining Oligodendroglia, (abs.), 71
Peterson, A. R.; W. C. Holmes, C. G. Melin and. Eosin B., 121
Phillips, Smith; Victor Burke, Ruth Dickson and. Differential stain for acid-fast bacteria and spores, 21
Phloxine, 28, 141
Pickard, R. J., and C. Rice. Method of staining fecal protozoa, (abs.), 149
Picro-congo-red, 110
Plant anatomy, use of basic fuchsin in, 91
Plant cytology, improvement in technic, 111
Plant tissue, hot celloidin technic for, 37
"Kallichrom" for, 30
Pollen mother cells, fixation of, 29
staining of, 63
Preservation of supravitally stained material, 115
Progress in the standardization of stains: See Standardization of stains
Protozoa, apparatus for washing, 32
fecal, staining of, 149
Pyronin, 30
Pyrrhol blue, 84

Quinolene blue, 86

Research problems of the Stain Commission, 1
Reticulated blood cells, staining of, 29
Rettie, T. A new method of applying Nile blue as a fat stain, (abs.), 149
Rice, C.; R. J. Pickard and. Method of staining fecal protozoa, (abs.), 149
Ripening of Heidenhain's hematoxylin, 26
Rosanilin hydrochloride, 10, 109
Rose bengal, 2
Ruthenium tetroxide as fixative, 29

Safranin, 4, 5, 7, 59, 60, 66, 76, 99, 104
Safrosin, 121
Salazar, A. L., and A. Estrada. Sur une reáction colloïdale nouvelle de l'hémoglobine, (abs.), 149
Sass, John E. Acetone as a substitute for alcohol in microtechnic, 65
Scarlet red, 104
Schmuck, M. L., and C. W. Metz. A method for the study of chromosomes in entire insect eggs, (abs.), 112
Sea urchin eggs, vital staining of, 70
Sections, permanent, rapid method for, 32
preventing curling of, 72

Silver impregnation method, Cajal's, 69
Silver method for ciliates, 32
Silver methods for paraffin sections, 31
Skin, vital staining of, 148
Skupienski, F. X. Influence du rouge neutre sur le dévelopment de certains Myxomycètes, (abs.), 112
Smear technic, Heidenhain's hematoxylin in, 63
Somatic chromosome stain, gentian violet for, 17, 107
Spirogyra, mitosis in, 43
staining of, 70
Spores, and acid-fast bacteria, differential stain, 21
Staining, history of: See History of staining
vital, 67, 68, 70, 71
Stains, in capsules, 34
in tablets, 33
Stains marketed in accurately weighed quantities, 33
Stains recently certified, 28, 36, 76, 114
Standardization of stains, progress in:
Amendment to the constitution, adopted May 15, 1932, 75
Enlarging the scope of this journal, 113
Report on Executive Committee meeting held in New York, March 26, 1932, 73
Research problems still facing the Stain Commission, 1
Stains marketed in accurately weighed quantities, 33
Technic of the celloidin method, 33
The history of staining, 113
Stone, L. S. Selective staining of the neural crest and its preservation for microscopic study, (abs.), 150
Stoughton's thionin orange G, erythrosin for, 25
Strauss, A. Über die Bleichung des Melanins, (abs.), 150
Sudan II, 104
Sudan III, 36, 104
Sudan IV, 104
Supravitally stained material, methods for the preservation of, 115

Tablet stains, 33
Tarkhan, A. A. The effect of fixatives and other reagents on cell size and tissue bulk, (abs.), 150
Thionin, 25, 26, 28, 30, 116
Thionin orange G, Stoughton's, erythrosin for, 25
Tissue, animal, fixation of, 150
staining of, 67, 110
Toluidine blue, 148
Tompkins, E. H.; R. S. Cunningham and. The supravital staining of normal human blood cells, (abs.), 68
Trypan blue, 148, 151
Tschetschuyeva, T. Über die Speicherung von Trypanblau in Ganglien verschiedener Gebiete des Nervensystems, (abs.), 151
Tubercle organism, staining of, 71, 147
Tureen, L. L.; J. E. Cook, H. M. Meyer and. Reticulocyte count preparations: An improved technic, (abs.), 29

Urates, histologic demonstration of, 29
Urechia, C. I., and J. Nagy. Méthode rapide et sure pour la coloration du tissu conjonctif dans le tissu nerveux, (abs.), 72

Varrelman, F. A. Paper apron to prevent curling of microtome sections, (abs.), 72
Vital staining, 67, 68, 70, 71
history of, 81, 115

Wallace, H. M. A stain for fibrin, Gram-positive bacteria, and basal bodies in tissues, (abs.), 72
Walls, G. L. The hot celloidin technic for animal tissues, 135
Weiss, Sigmund. Mallory's connective tissue stain following hematoxylin, 131
Welch, B. M.; W. J. Baumgartner and A new time-saving device for embedding in paraffin, 129
Wetmore, R. H. The use of celloidin in botanical technic, 37
Wetzel, A. Paraffineinbettung über Terpineol oder Methylbenzoat unter Vermeidung von absolutem Alkohol und Benzol (Xylol, Chloroform) für schwerschneidbare Objekte, (abs.), 151
Wolfe, J. M.; R. Cleveland and. A differential stain for the anterior lobe of the hypophysis, (abs.), 147
Wood, sectioning of, 110
Wright's stain, 7, 8, 29, 33, 36, 148